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Accomplishment Plan Region VIII. Comprehensive Energy-Environment Program

Environmental Protection Agency

June 1975

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16. Abstracts
In 1974 the Region implemented a Northern Great Plains Resources Program effort. This Accomplishment Plan is a continuation of the 1974 and 1975 Accomplishment Plans. Development of other energy sources may have significant environmental impacts. Consistent with Region VIII's prevention posture, the U.S. Environmental Protection Agency has formulated a regional energy-environmental program.

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REGION VIII

FY '76

COMPREHENSIVE ENERGY-ENVIRONMENT PROGRAM
ACCOMPLISHMENT PLAN

JUNE 1975

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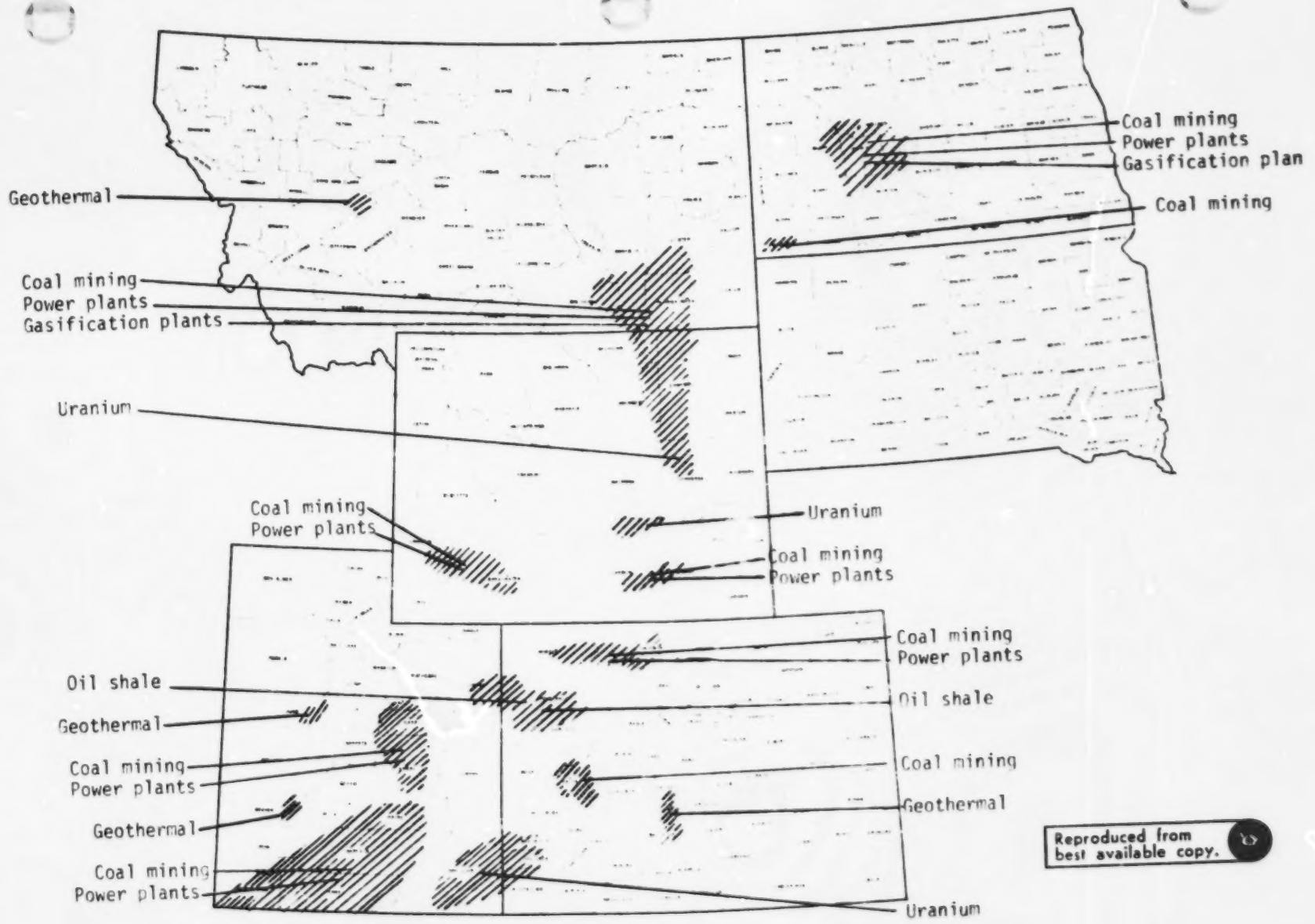

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MAJOR ENERGY ACTIVITIES, REGION VIII

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NARRATIVE OVERVIEW

INTRODUCTION

FY'76 will be the third year that Region VIII has mounted a concerted energy-environment program. In FY'74 the Region implemented a Northern Great Plains Resources Program effort which was supported by overtarget resources amounting to seven positions and $875,000. The energy program was expanded in FY'75 to address regionwide energy developmental activities and to focus priority attention on the environmental impacts from coal and oil shale activities. During FY'75 the regional Northern Great Plains Resources Program effort was integrated into the comprehensive regional energy program. The FY'75 Comprehensive Energy Program received overtarget support of 14 positions and some $2.5 million out of an approved overtarget request of $3.075 million.

This Accomplishment Plan is a continuation of the FY'74 and '75 Accomplishment Plans. It supports a request for continuation of the 14 overtarget positions and $2.75 million for in-house and extramural activities. Five positions and $112,000 of within-ceiling resources are budgeted for direct support of the program. An additional 17 workyears of within-ceiling ongoing regional program activity are projected to support the overall program in FY'76. The total workyears shown on the output forms relate only to those specific objectives and do not account for significant efforts in overall management and coordination, program planning and monitoring, intergovernmental activities, etc. and therefore, fall short of the total regional effort.

One-half of the nation's coal reserves, forty-percent of the economically recoverable uranium reserves, and all commercially feasible oil shale resources are located in Region VIII. Development of other energy sources may also have significant environmental impacts. These include oil and gas, "tight" gas, geothermal, and hydroelectricity. Pressures to develop these resources are accelerating due to national policies and programs aimed at achieving independence from international energy source constraints.

Consistent with Region VIII's prevention posture, the Regional Office of the U.S. Environmental Protection Agency has formulated the Regional Energy-Environmental Program, and established an Office of Energy Activities.

Background information for the Accomplishment Plan is included in a separately bound appendix.

PROGRAM STRATEGY

In general, the FY'76 program will resemble the FY'75 program. The FY'76 plan will continue to emphasize a balanced program incorporating environmental monitoring, technical investigations, control technology evaluation, impact prediction, environmental planning and regulatory program development.

Because of increasing interest in the regional uranium resources to supply a projected large-scale nuclear power industry, the FY'76 plan will include a limited uranium initiative. Minor activity is also slated for geothermal and other resources. During FY'76, the level of baseline data collection efforts will begin to decrease though a detailed and continuing monitoring network will be projected. Better utilization of the environmental data and program planning and response capabilities of other entities is planned. The Region is preparing a five-year strategy to provide directional guidance for longer term efforts and for reviewing annual program plans.

MONITORING AND TECHNICAL INVESTIGATIONS

Monitoring and technical investigations activities are designed to support regional implementation planning and regulatory program needs. First priority is assigned to projects supportive of AQMA-208 plan formulation. A major thrust of the technical effort is to develop the regional expertise and specialization needed for investigating the environmental considerations of energy exploration, extraction, conversion and use. A special need exists to establish early expertise in the emerging industrial technologies of oil shale processing and coal gasification. The Region is not involved in projects of a long-term research nature, but limits program activities to short-term efforts to describe baseline conditions of environmental quality, prediction of environmental impacts and evaluation of abatement and control options. Under this present AQMA-208 strategy, most monitoring will terminate upon fulfillment of planning needs unless redirected to meet the longer-term needs.

COORDINATED PLANNING

The planning program is designed to address both local and regional environmental impacts. Highest priority is assigned to designated "hot spots". The strategy for these areas involves an intensified, localized program effort. Nine target areas have been identified as "hot spots". The formulation of 208 and AQMA plans for these high priority areas is a key feature of the strategy. The target areas have been defined as multi-county areas whose boundaries are generally consistent with the boundaries of regional planning authorities. In general, common boundaries have been established for all energy planning endeavors. An exception is Wayne County, Utah, where a 3,000 MW coal fired electric generating station is planned to go into operation about 1980. An air quality maintenance plan will be developed for the area, however, because of planning jurisdictional problems and time constraints for getting 208 funds obligated, development of an areawide waste treatment management plan is not a part of this accomplishment plan. Water quality planning for this area will most likely be handled through other regional water programs.

In addition to the 208 and AQMA planning activities, solid wastes, noise and drinking water considerations are addressed as part of the total environmental planning effort.

Special attention has been given to energy program-208 planning relationships. The program is structured so that the activities are complementary. The 208 planning process will develop the regulatory framework for municipal and industrial source control, and non-point source management,

including appropriate land use considerations. Because land uses are common to environmental problems, the coordinated environmental planning effort established by the program will be able to draw upon the land use management base established through the 208 management process. Thus air, water, solid wastes and noise programs will be linked to a common land use base.

The Program also assesses region-wide impacts. This activity is designed to tie together the nine target areas and to address broad geographical and atmospheric impacts.

The direct assistance program to the Colorado West Area Council of Governments will be continued in FY'76. The program consists of on-site assignment of staff to the COG and a grant to assist the COG in developing an environmental management capability. An EPA environmental planning engineer was relocated from Denver to the Rifle, Colorado COG Headquarters during FY'75. He is supplemented by a clerk-typist funded by the regional office. A $100,000 grant was provided to the COG to be used to hire an environmental engineer and to provide contract support. The COG environmental engineer will be responsible for providing technical assistance to local governments and for formulation of a COG regional environmental management plan.

INTEGRATED MANAGEMENT

Overall management of the regional program will be provided by the Office of Energy Activities. The program is designed to achieve maximum integration of the energy-related work into on-going regional programs. Towards this end, a major interdivisional effort has been initiated to involve appropriate operating divisions in the conduct of the program,e.g. baseline monitoring will be done by the Surveillance and Analysis Division, air and water planning by the Air and Hazardous Materials and Water Divisions, respectively. The program provides for comprehensive, coordinated, and integrated environmental management utilizing EPA authorities, and programs for air, water (including drinking water), solid wastes, noise and radiation. The program will also be coordinated closely with activities of the Office of Research and Development, and with programs of state and other Federal agencies.

The program emphasizes the Federal, state and local partnership in environmental management. The thrust of this relationship focuses on the role of the states, regional planning agencies, and Indian tribes in environmental management. Where Indian reservations are included in the 208 planning area, a single plan will be developed with separate provisions for Indian and non-Indian areas. 208 monies for the Indian reservations will be channelled to the appropriate regional planning agency with funds earmarked for the Tribes.

The FY'76 regional role will shift towards use of the data generated in FY'74 and '75 to support policy making and implementation at the local, state and federal levels in order to assure complete utilization of the findings. A greater state involvement in energy-environmental issues is projected for FY'76. This will need to be a coordinated, interdepartmental effort on the part of state governments, not only to meet environmental goals, but to assure effective expenditure of the monies that states will be receiving through severance taxes and bonus royalties.

Design of a management system for integrating local, state and federal activities is projected for FY'76. Upon design of the system, the Region will move to institute the management system to effectively accomplish transfer of information from EPA to users at all levels of government. A special need of the management system is to address lateral integration of environmental considerations among state agencies.

The system will need to serve the multiplicity of administrative, developmental and regulatory agencies and also to reach into the legislative/political process in state governments. Each state has different ways of administratively handling resource development. Additionally, political philosophies vary from state to state. Accordingly, elements of a management system must be flexible to meet the differing situations. Effective communications with local governments are also viewed as a major need. It will be necessary to find ways of providing better service to municipal and county governments within the present framework of EPA/State programs.

OBJECTIVES

In accordance with the overall objectives and strategy previously stated, specific objectives for FY'76 are:

(1) Establish continuing resource development monitoring system.

(2) Establish and maintain a baseline environmental quality monitoring system for support of regional programs.

(3) Develop technical guidance for process and control technology inputs to regulatory programs.

(4) Formulate coordinated AQMA, 208, solid waste, noise and drinking water plans for high priority impact areas.

(5) Identify and monitor EPA, other governmental, and industrial energy research activities of special interest to regional program needs.

(6) Participate in the EPA/USDI/USDA Northern Great Plains Resources Program.

(7) Participate in the Federal Prototype Oil Shale Leasing Program and related oil shale activities.

(8) Participate in the Water Resources Council's Level B Study for the Yellowstone River Basin.

(9) Assure proper consideration of environmental needs in EIS preparation for energy-related projects.

(10) Provide planning and technical assistance to local government.

(11) Encourage greater state interdepartmental participation in energy-environment activities.

(12) Maximize use of information and capabilities of other Federal agencies.

(13) Institute a management system to serve local, state and Federal needs.

(14) Establish improved liaison with the industrial and public sectors.

OVERTARGET REQUEST

1. RPIO: Regional Administrator 2. Date: June 13, 1975 3. Priority _____
4. Allowance Holder 08

	6.* Ontarget Plan		7. Request		8. New Plan	
	Pos.	$000	Pos.	$000	Pos.	$000
5. Appropriation _____	5	112	14	2,750	19	2,862
Media _____						
Subactivity _____						
_____						

9. Additional Outputs to be Obtained — See Energy Accomplishment Plan

a. Type of Output b. Level of Output

10. Reason for Overtarget Request

To implement Region VIII FY'76 Comprehensive Energy-Environmental Program

* An additional 17 workyears of ongoing activities are directed to support of the Energy Program

FY '76 FUNDING SUMMARY

MONITORING		$850,000
Surface water-chemical	(175k)	
Surface water-biological	(150k)	
Ground water	(100k)	
Air quality	(225k)	
Meteorology	(200k)	
TECHNICAL INVESTIGATIONS		$680,000
Water conservation/reuse	(100k)	
Uranium	(150k)	
Geothermal	(50k)	
Land impacts	(50k)	
Economics of control	(30k)	
Supply-demand considerations	(100k)	
Integrated assessment methodology	(100k)	
Socio-economic impacts	(100k)	
COORDINATED PLANNING		$500,000
Regional/Community planning	(200k)	
Solid wastes planning	(150k)	
Noise control planning	(50k)	
AQMA planning support	(100k)	
INTEGRATED MANAGEMENT		$720,000
State program support	(250k)	
Design integrated management system	(100k)	
Education and Public Affairs	(50k)	
Administration and salaries	(320k)	
		$2,750,000

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: # 1 Establish continuing resource development monitoring system

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & PM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Complete contract for design of tracking system.		0.05					.01	→	→	→	→	→	→						
• Design regional data management system		0.05					.04							→	→				
• Implement monitoring system		0.15					.01									→	→	→	→

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: # 2 Establish and Maintain a Baseline Environmental Quality Monitoring System

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE
		Energy	Water	A & IM	S&A	Enf.	Mgmt.	July Aug. Sept Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June
• Manage FY'75 Surface Water Chemical Quality Monitoring Plan							0.01	
Colorado		0.02			0.03			
Montana		0.02			.03			
North Dakota		0.02			.03			
Utah		0.02			.03			
Wyoming		0.02			.03			
• Manage FY'75 Surface Water Biological Monitoring Plan							0.01	
White River drainage Colorado		.05			0.10			
Yellowstone and Tongue Rivers,MT		.02			0.03			
Poplar River, MT		.05			.30			
Cannonball,Knife,&Little Missouri Rivers, N.D.		.02			.03			
Minimum flow study, Yampa River, Colorado		.02			.30			
Fishery study, Montana		.05			.30			
Instream needs model, Utah		.02			.03			
Flow changes effects on ecosystems, Tongue River, Montana		.02			.03			
Impacts of coal development on Tongue River Reservoir, MT		.02			.03			
• Manage FY '75 Ground Water Monitoring Plan							0.01	
Geochemical data, Piceance Creek Basin, Colorado		.05			.02			
Input data to digital model, Piceance Basin, Colorado		.05			.02			
Geochemical data, coal area of northwestern Colorado		.05			.02			

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: # 2 (continued)

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & HM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Quality shallow ground water discharge to Tongue River, Montana		.05			.02														
Investigate salts from coal mine spoil material to ground water, MT		.05			.02														
Geohydrologic data from coal mining areas in the northern Yellowstone & Missouri River drainages, MT		.05			.02														
Chemical measurements in shallow ground water system near Gascoyne,ND		.05			.02														
Geochemical data in the Uintah Basin, Utah		.05			.02														
Geochemical data in Southern Utah		.05			.02														
Hydrologic and geochemical data from shallow coal resource north of Gillette, Wyoming		.05			.02														
• Manage FY'75 Air Quality Monitoring Plan							.01												
Colorado		.02		.01	.08														
Montana		.05		.02	0.25														
North Dakota		.02		.01	.08														
South Dakota		.02		.01	.08														
Utah		.02		.01	.08														
Wyoming																			
• Manage FY'75 Meteorological Monitoring Plan				.16	.01		.01												
Regional Contract																			
• Develop criteria for identification of specific FY'76 monitoring needs and systems design		.02	.02	.02	.02		0.01												

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #2 (continued)

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & EM	S&A	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Complete Regional review of FY'76 Monitoring Needs																			
Surface water - chemical		.02	.02		0.06		0.01												
Surface water - biological		.02	.02		.06														
Ground water		.02	.02		.06														
Air		.02		.02	.06														
Meteorological		.02		.02															
• Design FY'76 Monitoring Plan		.05	.04	.02	.20														
• Complete Contract Preparation		.10	.04	.05	.25		.04												
• Implement FY'76 Monitoring Plan																			
Surface water - chemical	175.0	.01	.01		.02		0.01												
Surface water - biological	150.0	.01	.01		.02														
Ground water	100.0	.01	.01		.02														
Air	225.0	.01		.01	0.03														
Meteorological	200.0	.02		.01	.01														

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #3 Develop technical guidance for process and control technology inputs to regulatory programs.

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & IM	SCA	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Evaluate process and control technologies for use in establishing effluent and emission requirements			0.25	0.15	0.03	0.03													
Steam-electric generating plants		0.5																	
Coal gasification plants		0.5																	
Oil shale complexes		0.5																	
Uranium milling		0.2																	
Coal mining		0.3																	
Oil shale mining		0.2																	
Uranium mining		0.1																	
Geothermal recovery		0.2																	
• Reports on distribution and fate of trace elements from coal fired power plants.		.05	.01	.01	.01														
• Technical coordination on trace elements effects study.		.02																	
• Report on characterization of emissions from coal gasification and oil shale plants.		.05		.02	.01														
• Report on emissions from oil and gas production.		.05		.02	.01														
• Report on control options for oil shale and coal conversion facilities.		.05	0.08	.02	.01	.01													
• Provide guidance for BMP for mining activities for use in 208 planning.		0.05	.05		.01	.01													
• Provide guidance for BMP for construction activities for use in 208 planning.		0.05	.05		.01	.01													

OBJECTIVE: #3 (continued)

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & IM	S&A	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Report on regulatory programs considerations of uranium mining & milling.	150.0	0.05	.01	.01	.01	.01	0.01							→	→	→	→	→	→
• Report on environmental characterization of geothermal development.	50.0	0.05	.01	.01	.01		0.01							→	→	→	→	→	→
• Report on evaluation of water supply requirements (conservation) oil shale and coal conversion.	50.0	0.05	0.02		.01		0.01							→	→	→	→	→	→
• Report on evaluation water supply and treatment options for reuse, recycle, etc.	50.0	0.05	0.02		.01		.01							→	→	→	→	→	→
• Report on economics of control requirements and options.	30.0	0.05	0.02	.01			.01							→	→	→	→	→	→
• Serve as technical coordinator for fugitive dust survey to be performed by NERC-CIN.		0.03		.01					→	→	→	→	→	→	→	→	→	→	→

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #4 -- Formulate Coordinated Environmental Management Plans for High Priority Impact Areas

PROGRAM/TASKS	PROGRAM PERIOD	STAFF SUPPORT						SCHEDULE
		Water Qual.	Water Mgmt.	Solid Waste	Air Qual.	Plan.	Other	
208 AREA WIDE PLANNING								
208 PLANNING PROCESS								
• Provide planning assistance and project monitoring of nine 208 energy areas.		0.10	2.67					
• Review and approve all contracts in energy 208 areas.		0.05	0.20				.03	
• Identify facilities needs, analyse alternatives and environmental impacts of each, select plan.		0.01	0.05	0.01				
• Identify existing land uses and future options, assess environmental impacts of each, identify land use controls to mitigate or prevent environmental degradation.		0.01	0.05	.01				
• Identify industrial sources, including energy sources; analyze environmental impacts; develop regulatory programs and requirements.		0.01	0.05	0.01				
• Identify management/institutional framework; assess capabilities and constraints of existing framework in terms of legal, financial, organizational, economic and physical parameters; recommend management/institutional plans.		.01	0.05					
• Review and approve plans.		0.05	0.20					

FY '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: 4 Continued

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT					SCHEDULE
		Denver	Water Qual.	SA	Ecol.	Geol.	July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June
208 PLANNING SUPPORT							
• Prepare and disseminate quarterly chemical and selected biological data from surface waters in the following areas:							
Yampa and Williams Fork Rivers, Colorado		.02		0.05			
White River, Parachute Creek and Logan Wash, Colorado		.02		.05			
Yellowstone and Tongue Rivers, Montana		.02		.05			
Missouri River, Knife River, and Spring Creek, North Dakota		.01		.05			
White, Duchesne, Price and Dirty Devil Rivers, Utah		.01		.05			
Green River Basin, Wyoming		.02		.05			
Powder River Basin, Wyoming		.02		.05			
• Complete summary biological reports for the following areas:							
White River drainage, Colorado		.01		.10			
Tongue River, Montana		.01		.05			
Poplar River, Montana		.01		.10			
Cannonball, Knife, and Little Missouri Rivers, North Dakota		.01		.05			

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: 4 Continued

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & PM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Complete minimum flow study report in the Yampa River, Colorado.		.01	.01		0.10														
• Complete fishery habitat, distribution, and spawning study report, Poplar River, Montana.		.01	.01		.05														
• Provide support to USFW in the field validation of an instream needs model for cold water fisheries, Uintah Basin, Utah.		.01	.01		.05														
• Interim report on insitu testing of the effects of flow changes on key ecosystem components in the Tongue River, Montana.		.01	.01		.05														
• Complete report on the impacts of coal development activities on the Tongue River Reservoir, Montana.		.01	.01		.05														
• Prepare and disseminate quarterly reports on geochemical data collected in the Piceance Creek Basin, Colorado.		.01			.02														
• Prepare and disseminate quarterly reports on the collection of input data to a digital model of the Piceance Creek Basin, Colorado.		.01			.02														
• Design a program to investigate the effects of mining and reclamation at an active or soon-to-be-active mine in northwestern Colorado to predict impacts of mining on shallow ground water and surface water systems. Submit quarterly geochemical data reports.		.01	.01		.02														

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: 4 Continued

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & PM	S&A	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Complete report quantifying shallow ground water discharge to the Tongue River, Montana.		.01			0.02														
• Complete report investigating the possibilities of coal mine spoil material contributing salts to the shallow ground water, Montana.		.01			.02														
• Complete report describing the potential ground water impacts of surface mining of coal in the Northern Yellowstone and Missouri River drainages of Montana.		.01			.02														
• Complete draft report on the impacts of mining on the shallow ground water system near Gascoyne, North Dakota.		.01			.02														
• Prepare and disseminate quarterly geochemical data report for the Uintah Basin of Utah.		.01			.02														
• Prepare and disseminate quarterly geochemical data reports for the energy areas of southern Utah.		.01			.02														
• Complete report on the impacts of mining on potentiometric surfaces and water quality on the shallow coal resource north of Gillette, Wyoming.		.01			.02														
• Complete contract for selection and verification of water quality model.		.02	.05																

OBJECTIVE: 4 Continued

OUTPUT/TASKS	FUNDING ($1000's)	STAFF SUPPORT						SCHEDULE												
• Conduct State seminars on how to use the model.			.05																	
• Develop a manual of construction source non-point pollution predictive techniques and prevention/control technologies.		.02	.05																	
AIR QUALITY MAINTENANCE PLANS																				
AQMA PLANNING PROCESS							0.01													
• Complete Phase I air quality maintenance plans.		.20	.01	0.50																
• Award contract for Phase II air quality maintenance plans.		.01		.01																
• Identify AQMAs needing further detailed work.		.02		.05																
• Identify magnitude of problem via air quality monitoring and diffusion modeling.		.05		.10																
• Identify supporting State and Federal agencies.		.01		.02																
• Pose alternative control strategies.		.02	.01	.02																
• Assess socio-economic impacts of alternative strategies.		.02	.01	.02																
• Develop set of regulations.		.02		.02																
• AQMA Phase II public hearings and plans submittals.		.01		.02																

OBJECTIVE: 4 Continued

PROGRAM/TASKS	BUDGET (000)	STAFF SUPPORT				CHART
AQMA PLANNING SUPPORT						
• Award meteorology contract.	.01	.02		0.01		
• Award visibility contract.	.01	.02				
• Measure background visibility in the Northern Great Plains.	.05	.15	.02			
• Complete report quantifying the amount of flared gas escaping from oil and gas wells in Utah and Colorado.	.07	.05				
• Complete report of air pollution emissions from coal gasification and oil shale conversion facilities.	.08	.05				
• Predict the trace element concentrations from fuel combustion from power plants.	.05	.05	.02			
• Evaluate fugitive dust effects on ambient quality.	.05	.05				
• Perform regional diffusion modeling.	.02	.10				
NOISE CONTROL PROGRAMS						
• Award contracts for noise control programs to Colorado, North Dakota, Montana.		.01		.01		

OBJECTIVE: 4 Continued

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT							COMPLETION
• Develop comprehensive community noise control programs in communities impacted by energy development or related growth.									
Colorado		.02		.05					
Montana		.02		.05					
North Dakota		.02		.05					
• Develop noise control program RFPs.									
Utah		.01		.01					
Wyoming		.01		.01					
• Award contracts for noise control programs.							0.01		
Utah	15.0			.01					
Wyoming	15.0			.01					
• Develop comprehensive community noise control programs in communities impacted by energy development or related growth.									
Utah		.01		.02					
Wyoming		.01		.02					
SOLID WASTE MANAGEMENT PLANS									
• Develop regional and local solid waste management plans.							0.01		
Planning Region XI, Colorado	50.0	.03	.01	.05					
Planning District 3, Montana		.02	.01	0.05					
Planning District 7, Montana		.02	.01	.05					

FY '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: 4 Continued

OBJECTIVE/TASKS	FUNDING ($1000)	STAFF SUPPORT					SCHEDULE
		1st Quarter	2nd	3rd	4th	5th	
Planning District VII, North Dakota	35.0	.02	.01	.05			
Uintah Basin, Utah	45.0	.02	.01	.05			
Southeastern Utah Planning Area		.02	.01	.05			
Five County Planning Area, Utah		.02	.01	.05			
Green River Basin, Wyoming	20.0	.02	.01	.05			
Powder River Basin, Wyoming		.02	.01	.05			
DRINKING WATER SUPPLIES							
• Evaluate 46 communities' drinking water supplies in energy impact areas.		.02	.07		.02		
GENERAL PLANNING SUPPORT							
• Examine other federal, state and local laws, regulations, etc. as means of achieving environmental quality.		.25				0.03	
• Evaluate BLM Decker-Birney framework planning process.		.10	.03				
• Coordinate total regional planning efforts in energy impact areas		0.60					

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F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #5 Identify, monitor and coordinate energy research activities.

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & L	S&A	Min.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Compile listing, description, and monitoring of ORD projects underway in Region VIII.		0.30																	
• Identify ORD sponsored projects in areas outside the region which are of special interest to Region VIII.		0.20																	
• Establish Region VIII technical coordinators for monitoring selected ORD projects.		0.10																	
• Catalog and monitor Federal, State and industry research projects of special interest to the regional program.		0.30																	
• Establish continuing liaison with government agencies, industry, universities and research institutes.		0.10																	
• Participate on ORD Western Energy Resource Development Committee.																			
Attend semi-annual sector meetings		0.10																	
Serve on oil shale subgroup		0.10																	
Serve on monitoring subgroup		0.10																	
• Participate on Committee on Surface Environment and Mining.		0.10																	

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #6 Participate in the Northern Great Plains Resources Program.

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & IM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Participate on Program Management Team (Regional Coordinating Group)		.10																	
• Provide direct on-staff assistance to program managers staff.		1.00																	
• Attend workgroup meetings		.01																	
• Complete water quality report		.02	.01																
• Complete final interim report		.02	.01																
• Provide support for NGPRP coordinating functions		.05																	

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #7 Participate in the Federal Prototype Oil Shale Leasing Program and other related oil shale activities.

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & IM	S&A	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Participate on the Oil Shale Environmental Advisory Panel (OSEAP)		.20																	
• Participate on selected OSEAP ad hoc workgroups		.15	.01	.01	.01														
• Continuing liaison/consultation with Area Oil Shale Mining Supervisor		.10	.01	.02	.02														
• Evaluate progress and findings of prototype program		.05	.01	.01	.03														
• Coordinate review of private oil shale development		.02																	
• Evaluate detailed development plans		.06	.02	.01	.01														
• Integrate data into regional data system		.02			.07		.01												

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #8 Participate in Yellowstone Level B Study

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & EM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Attend task force meetings		.02	.05					———	———	———	———	———	———	———	———	———	———	———	———
• Review plan of study		.01	.02					———	———	———									
• Support state water pollution agency participation in study			.01																
• Review contracts		.02	.03	.01				———	———	———	———	———	———	———	———	———	———	———	———
• Monitor contracts and progress of study		.02	.03					———	———	———	———	———	———	———	———	———	———	———	———
• Provide input data (existing reports, monitoring data, etc.,) to study manager		.02	.02		.02			———	———	———	———	———	———	———	———	———	———	———	———
• Review interim reports		.02	.02	.01	.01						———	———	———	———	———	———	———	———	———
• Review final report		.02	.02	.01	.01												———	———	———

NOTE:

Only review and broad management functions are identified. The direct participatory role of the region in continuing management and plan formulation has not yet been defined.
However, direct participation will be funded by the Missouri River Basin Comm.

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #9 Assure proper consideration of environmental needs in EIS preparation for energy-related projects.

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE
		Energy	Water	A & IM	SCA	Ind.	Mgmt.	July Aug. Sept Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June
• Review other Federal agencies' EISs for energy development activities		.20	1.00	.20				→
• Review EPA EISs for wastewater treatment facilities in program target areas		.10	.30	.05				→
• Review EISs for new source discharge permits for energy sources		.03	.12	.05				→

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #10 Provide planning and technical assistance to local governments

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & HM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Continue direct staff assistance to Colorado West Area Council of Governments (CWACOG)		1.00																	
• Continue financial support of clerical position for EPA-FRC staff at CWACOG		.05																	
• Complete EPA funded CWACOG regional environmental management plan		.15	.04		.05		.01												
• Monitor technical assistance role of EPA-funded COG staff member to municipal and county governments in CWACOG.		.05																	
• Complete contract for preparation of handbook for communities and counties for managing growth and related environmental, social and economic impacts.		.02	.05																
• Complete contract for review of health-related environmental effects of living in development impacted communities.		.05	.02	.02	.01														
• Complete contract for development of models for projecting economic impacts and requirements for public services.		.02	.05																

FY '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #10 (continued)

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE
		Energy	Water	A & EM	SCA	Enf.	Mgmt.	July Aug. Sept Oct. Nov. Dec. Jan. Feb. Mar. Apr. May Jun.
• Implement modelling effort using above model for Wyoming and Montana counties in Powder River Basin	40.0	.02	.05					
• Review Step I plans for facilities needs in target areas		.25	2.0					
• Selected socio-economic studies	100.0	.10	.04	.03				

FY '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #11 Encourage greater state interdepartmental participation in energy-environmental activities.

ACTIVITY/TASKS	FUNDING (K$)	STAFF SUPPORT					SCHEDULE
• Support establishment of state energy-environmental programs							
Colorado	50.0	.10	.01	.01		.01	
Montana	50.0	.10	.01	.01		.01	
North Dakota	50.0	.10	.01	.01		.01	
Utah	50.0	.10	.01	.01		.01	
Wyoming	50.0	.10	.01	.01		.01	
• Annual program review presentation to state environmental officials		.04	.02	.02	.02		
• Provide selected reports, etc. to state agencies		.04	.02	.02	.02		
• Provide monthly newsletter to state environmental agencies		.10	.02	.02	.01		
• Continuing liaison with state natural resource agencies		.05	.01	.01			

OBJECTIVE: #12 Maximize use of information and capabilities of other Federal agencies

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & EM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Compile an integrated, interagency baseline monitoring data base for air and water		.05	.03	.03	.05		.01												
• Hold annual program review sessions with ERDA, FEA, SEAM, OWRC, etc.		.05	.01	.01															
• Establish procedure for exchanging information between agencies and programs		.05																	
• Establish procedures for inter-agency review of technical proposals		.05																	

F Y '76 REGIONAL MANAGEMENT PLAN

OBJECTIVE: #13 Institute a data management system

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & HM	S&A	Enf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
• Determine data management needs beyond STORET, SAROAD capabilities.		.05	.02	.02	.02		.02	→	→	→	→	→	→						
• Develop reporting and display techniques for inputting data to AQMA and 208 planning processes.		.05	.02	.02	.02		.01	→	→	→									
• Determine analysis and presentation required to effectively influence and support policy making and implementation at local, state and federal levels.	100.0	.05	.01	.01	.01		.01				→	→	→	→	→	→	→		

OBJECTIVE: #14 Establish improved liaison with the industrial and public sectors

OUTPUT/TASKS	FUNDING ($1000)	STAFF SUPPORT						SCHEDULE											
		Energy	Water	A & EM	S&A	Inf.	Mgmt.	July	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
o Establish improved liaison and information exchange with industrial organizations, such as:		.05						———	———	——→									
Rocky Mountain Oil & Gas Assoc.																			
Rocky Mountain Electric League																			
Western States Coordinating Council																			
o Establish improved liaison and information exchange with citizen/ environmental groups, such as:		.05						———	———	——→									
Sierra Club																			
Environmental Defense Fund																			
Northern Plains Resources Council																			

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
OFFICE OF ENERGY ACTIVITIES	Regional focal point and clearing house for energy activities.
	Principal advisor to Regional Administrator on energy matters.
	Coordinates and integrates regional energy-related program activities.
	Develops and maintains inventory of present and projected energy developmental activities.
	With operating divisions identifies monitoring, technological, planning, legislative and regulatory needs.
	Formulates regional comprehensive energy-environment program.
	Develops detailed work plans and monitors progress for the regional energy program.
	Evaluates energy demand, supply and development considerations.
	Coordinates socio-economic analyses and projections for energy impact areas.
	Provides basic data to 201, 208, 303(e), AQMA, noise, drinking water and solid wastes planning.
	Coordinates regional environmental planning and monitoring activities for energy impact areas.
	Provides professional planning staff assistance to Colorado West Area COG.
	Provides secretarial support to FRC staff at Colorado West Area COG.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
OFFICE OF ENERGY ACTIVITIES (continued)	Provides advice to Oil Shale Environmental Advisory Panel and Area Oil Shale Mining Supervisor.
	Coordinates review of reports relating to oil shale lease tract development.
	Provides support to Northern Great Plains Resources Program.
	Provides direct staff assistance to NGPRP program manager.
	Supports and coordinates energy-related technical investigations.
	Investigates impacts of energy exploration and extraction and recommends controls.
	Investigates impacts of energy conversion technology and recommends controls.
	Reviews energy related EISs.
	Technical review of NSPS for energy industries.
	Identifies energy research needs and pursues ORD support therefor.
	Coordinates energy R&D activities among NERCs and other Federal agencies.
WATER DIVISION	Coordinates and monitors state water program activities.
	Assists states in developing 303 basin plans in impact areas without 208 designation.
	Regional lead for 208 planning activities in program target areas.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
WATER DIVISION (continued)	Coordinates and integrates interagency activities supportive of 208 planning.
	Step I (201) facilities planning for energy impacted communities.
	Facilities grants management (Steps 2 & 3) for energy impacted communities.
	Serves as Project Officers on selected water contracts.
	Evaluates and recommends solutions for non-point source problems.
	Provides technical assistance on pollution control technology.
	Evaluates salinity impacts and effects on downstream users.
	Predicts effects of development on water quality through modeling techniques.
	Investigates impacts of water resources developments.
	With Energy Office and S&A Division identifies water monitoring needs and evaluates monitoring data.
	Coordinates energy-related EIS reviews.
	Coordinates regional support for EIS preparation.
	Reviews and recommends revisions of water quality standards.
	Carries out O&M activities for municipal treatment works in impacted communities.
	Reviews adequacy of drinking water supplies for impacted communities.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
SURVEILLANCE AND ANALYSIS DIVISION	With Energy Office and Operating Divisions evaluates data and develops monitoring plans
	Implements water data collection network including biological investigations.
	Provides comprehensive interpretation of monitoring data.
	Implements air data gathering and monitoring.
	Serves as Project Officer for energy-related contract monitoring efforts.
	Technical assistance to state and Federal agencies for implementation of monitoring systems.
	Designs and conducts field surveys and special investigations.
	Responsible for data storage and retrieval operations.
	Provides graphical, statistical and written reports.
	Provides laboratory support.
	Reviews energy EISs.
ENFORCEMENT DIVISION	Permits processing and review.
	Legal reviews for permits, NSPS, SIPs.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
ENFORCEMENT DIVISION (continued)	Legal support for enforcement actions.
	Provides legal assistance relating to energy legislation and regulations.
	Review energy EISs.
AIR & HAZARDOUS MATERIALS DIVISION	Reviews and recommends revisions of SIPs.
	Regional lead for AQMA planning.
	Co ordinates reviews for compliance with significant deterioration regulations.
	Reviews compliance with indirect source regulations.
	With Energy Office and S&A Division identifies air monitoring needs and evaluates data.
	Technical assistance to state and Federal agencies for design of air monitoring systems.
	Acquires and reduces meteorological data from monitoring systems.
	Predicts ambient concentrations of airborne pollutants through the use of diffusion models.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
AIR & HAZARDOUS MATERIALS DIVISION (continued)	Provides assistance with energy-related reviews of ambient standards and with new source performance standards.
	Provides support and liaison to state agencies and other regional divisions for control technology.
	Coordinates and monitors state air program activities.
	Evaluates radiological considerations of energy development.
	Assists states and local governments with development of solid waste management plans for impact areas.
	Evaluates and develops programs for noise control in impact areas.
	Develops and sponsors manpower training programs.
	Reviews energy EISs.
MANAGEMENT DIVISION	Contract administration, personnel support, travel and payroll processing.
	Provide interface with Headquarters contracts management division.
PUBLIC AFFAIRS OFFICE	Public information support.

INTERDIVISIONAL FUNCTIONAL RELATIONSHIPS FOR
REGION VIII ENERGY ACTIVITIES

ORGANIZATIONAL UNIT	FUNCTION
OFFICE OF CONGRESSIONAL AND INTERGOVERNMENTAL RELATIONS	Liaison with business, industry and government; legislative initiatives.
FEDERAL REGIONAL COUNCIL LIAISON	FRC liaison.
OFFICE OF CIVIL RIGHTS AND URBAN AFFAIRS	Contracts compliance, equal employment activities.
REGIONAL COUNSEL	Legal assistance; legislative initiatives.